



ALMATIS

PREMIUM ALUMINA



Global Product Data

Dispersing Aluminas

Product	ADS 1	ADS 3	ADW 1	M-ADS 1	M-ADS 3	M-ADW 1
Chemical Composition [%]	typical	typical	typical	typical	typical	typical
Al ₂ O ₃	80	76	80	91	95	96
Na ₂ O	0.10	0.10	0.10	1.40	1.40	0.10
B ₂ O ₃	0.80	2.80	0.03	1.30	2.50	0.55
CaO	1.80	1.80	1.80	0.02	0.02	0.02
L.O.I. at 1050 °C	18.0	20.0	18.0	7.0	8.0	2.7
Physical Properties						
Particle size D50 Cilas [µm]	2.6	2.6	2.6	2.6	2.6	2.6
Particle size D90 Cilas [µm]	9.0	9.0	9.0	9.0	9.0	9.0
Self-Flow F 10* [cm]	min.	min.	min.	min.	min.	min.
	20.0	17.0	20.0	20.0	20.0	20.0
	MSDS 974			MSDS 1036		

All data are based upon Almatris standard test methods.

The typical properties are based upon the actual averages from production data.

Our Dispersing Aluminas fulfil two main functions in castables

1. Full dispersion of the castable for reduced water demand and optimized flow properties
2. Adjustment of flow and setting times according to specific placement requirements and climatic conditions

There are two different product lines of Dispersing Aluminas available for individual castable concepts:

ADS 1, ADS 3 and ADW 1 for **high performance silica-free** castables using Tabular Alumina fines and Spinel fines, Reactive Aluminas, CA-270 or CA-14 W, M or S cement in the matrix

ADS 1: Dispersing and Retarding Alumina

ADS 3: Dispersing and strong Retarding Alumina

ADW 1: Dispersing and Accelerating Alumina

Recommended additions are 1% in total, admixtures determine working time.

*Flow F 10 for ADS 1, ADS 3 and ADW 1 is measured in Self-Flow castable SFL 204.

Think alumina, think Almatris.

GP-RCP/019/R02/0812/MSDS 974/1036



M-ADS 1, M-ADS 3 and M-ADW 1 for **silica-containing castables** using Tabular Alumina fines, Reactive Aluminas, Microsilica and CA-270 or CA-14 W, M or S cement in the matrix.

M-ADS 1: Dispersing and Retarding Alumina

M-ADS 3: Dispersing and strong Retarding Alumina

M-ADW 1: Dispersing and Accelerating Alumina

Recommended additions are 1% in total for low cement-castables and 0.7 % for ultra-low cement-castables, admixtures determine working time.

*Flow F 10 is measured in Self-Flow castable SFL-SMS-46-270.

Shelf life

Stored under adequate dry conditions, the properties of all Almatís Dispersing Aluminas remain stable for a period of 12 month. Experiences have shown that even after longer storage time the properties are not impaired.



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